

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 02/12440

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L1/00 H04B7/005

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01L H04L H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 735 774 A (AT & T CORP) 2 October 1996 (1996-10-02)	1-3, 6-12, 19-23, 25-28
Y	figures 5A-6C,8A-8C column 17, line 1 - line 51 column 8, line 16 -column 13, line 50 ---	14,15
X	DE 34 43 041 A (SIEMENS AG) 28 May 1986 (1986-05-28) abstract claims 1,2,5-9 page 7, line 4 - line 22 ---	1-4,6-9, 11-13, 18-28
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the international search

21 July 2003

Date of mailing of the international search report

30/07/2003

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PCT/EP 02/12440

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 729 560 A (HAGENAUER JOACHIM ET AL) 17 March 1998 (1998-03-17) figures 1,2 column 1, line 65 -column 2, line 12 column 3, line 60 -column 4, line 11 ---	1-4, 6-13, 19-28
X	"Enhanced HARQ Method with Signal Constellation Rearrangement" TSG-RAN WORKING GROUP 1 MEETING, XX, XX, no. 19, 27 February 2001 (2001-02-27), XP002229383 the whole document ---	1,3-13, 16-19, 21,22, 24-28
A	YUN L C ET AL: "Power control for variable QOS on a CDMA channel" MILITARY COMMUNICATIONS CONFERENCE, 1994. MILCOM '94. CONFERENCE RECORD, 1994 IEEE FORT MONMOUTH, NJ, USA 2-5 OCT. 1994, NEW YORK, NY, USA, IEEE, US, 2 October 1994 (1994-10-02), pages 178-182, XP010149801 ISBN: 0-7803-1828-5 the whole document ---	5,6,10, 13, 16-18,24
Y		14,15
A	US 5 982 766 A (BRUHN STEFAN ET AL) 9 November 1999 (1999-11-09) figures 1,3,6-8,10,15-17 column 2, line 41 -column 5, line 7 column 9, line 29 - line 51 ---	1-28
A	EP 1 143 635 A (NTT DOCOMO INC) 10 October 2001 (2001-10-10) cited in the application the whole document -----	1-28

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP 02/12440

Patent document cited in search report	Publication date		Patent family member(s)		Publication date
EP 0735774	A	02-10-1996	US 5671156 A CA 2172567 A1 EP 0735774 A2 JP 8289295 A US 5581481 A		23-09-1997 01-10-1996 02-10-1996 01-11-1996 03-12-1996
DE 3443041	A	28-05-1986	DE 3443041 A1		28-05-1986
US 5729560	A	17-03-1998	DE 59610391 D1 EP 0749211 A2		05-06-2003 18-12-1996
US 5982766	A	09-11-1999	AU 2717597 A AU 2717697 A AU 721688 B2 AU 2717797 A AU 720308 B2 AU 2717897 A CA 2252693 A1 CN 1216652 A DE 19781710 T0 DE 19781715 T0 DE 69717443 D1 EP 0907950 A1 FI 982316 A FI 982317 A FI 982318 A WO 9741662 A1 WO 9741663 A1 WO 9741641 A2 WO 9741549 A1 TW 389014 B US 6195337 B1 US 5987319 A US 6163577 A		19-11-1997 19-11-1997 13-07-2000 19-11-1997 25-05-2000 19-11-1997 06-11-1997 12-05-1999 29-04-1999 29-04-1999 09-01-2003 14-04-1999 26-10-1998 26-10-1998 26-10-1998 06-11-1997 06-11-1997 06-11-1997 06-11-1997 01-05-2000 27-02-2001 16-11-1999 19-12-2000
EP 1143635	A	10-10-2001	JP 2001292096 A JP 2001292097 A CN 1317885 A EP 1143635 A1 US 2001046877 A1		19-10-2001 19-10-2001 17-10-2001 10-10-2001 29-11-2001